The



THE COMMISSIONER IS AUTHORIZED TO CHARGE ANY DEFICIENCY IN THE FEES FOR THIS PAPER TO DEPOSIT ACCOUNT NO. 23-0975

# IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Natsuki SAITO et al.

Mail Stop: PCT

Serial No. 10/587,241

Attorney Docket No. 2006\_1146A

Filed July 26, 2006

VOICE SYNTHESIS DEVICE [Corresponding to PCT/JP2005/000505 Filed January 17, 2005]

# SUBMISSION OF ENGLISH VERSION OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Submitted herewith for consideration by the Examiner is an English version of the International Preliminary Report on Patentability.

Respectfully submitted,

Natsuki SAITO et al.

By Charles R. Watts

Registration No. 33,142

Attorney for Applicants

CRW/asd Washington, D.C. 20006-1021 Telephone (202) 721-8200 Facsimile (202) 721-8250 January 3, 2007

# PATENT COOPERATION TREATY

## From the INTERNATIONAL BUREAU

NOTIFICATION OF TRANSMITTAL OF COPIES OF TRANSLATION OF THE INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (CHAPTER I OR CHAPTER II OF THE PATENT COOPERATION TREATY)

(PCT Rules 44bis.3(c) and 72.2)

NII, Hiromori c/o NII Patent Firm 6F, Tanaka Ito Pia Shin-Osaka Bldg. 3-10, Nishi Nakajima 5-chome Yodogawa-ku, Osaka-city Osaka 532-0011 JAPON

13.50

Date of mailing (day/month/year) 09 November 2006 (09.11.2006)	76
Applicant's or agent's file reference P36725-P0	IMPORTANT NOTIFICATION
International application No. PCT/JP2005/000505	International filing date (day/month/year) 17 January 2005 (17.01.2005)
Applicant MATSUSHITA ELECTRIC	INDUSTRIAL CO., LTD. et al

١.	Transmittal	of the	translation	to	the applicant.	
----	-------------	--------	-------------	----	----------------	--

]	The International Bureau transmits herewith a copy of the English translation of the international preliminary report or patentability (Chapter I).

The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

EP, KR

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Yoshiko Kuwahara

Facsimile No. +41 22 338 82 70 Facsimile No. +41 22 338 82 70

# TRANSLATION PATENT COOPERATION TREATY POT

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

	·			
Applicant's or	agent's file reference		D ACTION	San Form DOT/IDEA/116
P36725	-P0	FOR FURTHE	K AC HUN	See Form PCT/IPEA/416
International a	pplication No.	International filin	g date (day/month/year)	Priority date (day/month/year)
PCT/JP	2005/0005	05   17.01.20	005	27.01.2004
International P	atent Classification (	IPC) or national classification a	and IPC	
G10L13	/06			
	• • •			
Applicant				
	HITA ELEC	TRIC INDUSTRIA	L CO. LTD.	
		ional preliminary examination mitted to the applicant according		International Preliminary Examining Authority
2. This	REPORT consists of	a total of 4	sheets, includi	ng this cover sheet.
		anied by ANNEXES, comprisi	ng:	
<u> </u>	<del>_</del>			6.0
a. 12		plicant and to the International		sheets, as follows:
	1 X I	ntaining rectifications authoriz	-	amended and are the basis for this report and/or tule 70.16 and Section 607 of the Administrative
			out which this Authority co	nsiders contain an amendment that goes beyond
		osure in the international appli	cation as filed, as indicate	d in item 4 of Box No. I and the Supplemental
	Box.			
ъ. L	(sent to the Int	ernational Bureau only) a total	of (indicate type and numb	er of electronic carrier(s))
				, containing a sequence listing and/or tables
		n computer readable form only the Administrative Instructions).	y, as indicated in the Supp	lemental Box Relating to Sequence Listing (see
4. This	report contains indica	ations relating to the following	items:	
$\square$	Box No. I	Pasis of the support		
		Basis of the report		
님	Box No. II	Priority		
	Box No. III	Non-establishment of opinion w	ith regard to novelty, inver	ntive step and industrial applicability
	Box No. IV	Lack of unity of invention		
$\boxtimes$	DOM ITO.	Reasoned statement under Artic citations and explanations suppo		elty, inventive step or industrial applicability:
	Box No. VI	Certain documents cited	_	
	Box No. VII	Certain defects in the internatio	nal application	
$\Box$		Certain observations on the inte		
		Certain observations on the line		
Date of submis	sion of the demand		Date of completion of t	his report
Name and mail	ing address of the IP	EA/JP	Authorized officer	
				•
Facsimile No.			Telephone No.	

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2005/000505

Box	No. I	В	Basis of the report			
I.			the language, this report is based on the internation this item.	nal application in the language in	which it	was filed, unless otherwise
			ort is based on translations from the original langua the language of a translation furnished for the purp			· ·
		inte	ernational search (Rule 12.3 and 23.1(b))			
	Ĺ	put	olication of the international application (Rule 12.4	)		
	L	inte	ernational preliminary examination (Rule 55.2 and/	or 55.3)		
2.	With re receiving this rep	ing Offic	the elements of the international application, this e in response to an invitation under Article 14 ar	report is based on (replacement e referred to in this report as "o	sheets whi originally j	ich have been furnished to the filed" and are not annexed to
		he intern	ational application as originally filed/furnished			
	<u> </u>	he descri	iption:			
	p	oages _	1,3-25			as originally filed/furnished
	P	oages* _	2-2/2	received by this Authority on	10.08	.2005
	P	ages* _		received by this Authority on	- · · · —	
	<b>⊠</b> 11	he claim:	s:			
	n	nos		· · · · · · · · · · · · · · · · · · ·		as originally filed/furnished
	n	10s. *		as amended (togethe	r with any	statement) under Article 19
	n	10s.* <u>1</u>	1-7,11,18	received by this Authority on	10.08.	2005
	n	nos. *		received by this Authority on		
		he drawi	ngs:			
		heets	fig. 1-16			as originally filed/furnished
		heets*		received by this Authority on		
		heets*				
			te listing and/or any related table(s) – see Suppleme		istina	
	$\square$	•		ental Box Relating to Sequence L	isting.	
3.		The amen	ndments have resulted in the cancellation of:			
	L	7	description, pages		<u>-</u>	<del></del>
	2	the	claims. nos. 8-10,12-17			
	Ļ	the	drawings, sheets/figs			
	Ļ	the	sequence listing (specify):	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·
	<u> </u>	any	table(s) related to sequence listing (specify):			
4.			ort has been established as if (some of) the amend been considered to go beyond the disclosure as fil			
		the	description, pages			
		the	claims, nos.			
		the	drawings, sheets/figs			<del>.</del>
		the	sequence listing (specify):	· · · · · · · · · · · · · · · · · · ·		
		any	table(s) related to sequence listing (specify):			
*	If item -	4 applie.	s, some or all of those sheets may be marked "supe	rseded."		

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2005/000505

			ticle 35(2) with regard to novelty, inventive step or industrial applicability;  porting such statement	
1.	Statement			
	Novelty (N)	Claims	1-7, 11, 18	_ YES
		Claims		_ NO
	Inventive step (IS)	Claims	1-7, 11, 18	_ YES
		Claims		_ NO
	Industrial applicability (IA)	Claims	1-7, 11, 18	YES
		Claims		_ NO

- 2. Citations and explanations (Rule 70.7)
  - Document 1: JP 9-244693 A (NTT Data Communications Systems Corp.), 19 September 1997, entire text and fig 1 to 10 (Family: none)
  - Document 2: JP 2002-351489 A (Namco Ltd.), 06 December 2002, entire text and fig. 1 to 24 (Family: none)
  - Document 3: JP 4-158397 A (Kabushiki Kaisha ATR Jido Honyaku Denwa Kenkyusho), 01 June 1992, entire text and fig. 1 to 3 (Family: none)

The specific configuration of the morphing means (the morphing step) in the inventions set forth in claims 1 to 7, 11 and 18 (i.e., the feature wherein fixed points that express the vocal quality of the stored sets of phonetic information are arranged in a coordinate system with N dimensions for display; the feature wherein a plurality of set points are arranged in the aforementioned coordinate system for display based on operations that are carried out by a user; the feature wherein among the plurality of sets of synthesized voice information that contribute to the morphing process, the portion of the information which changes over time is derived and indicated based on moving points, which move

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2005/000505

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

between the aforementioned plurality of established points in an continuous manner over time, and the arrangement of the aforementioned fixed points; and the feature wherein intermediate synthesized voice signals, which correspond to the characters that are included within the text data and express a synthesized voice with an intermediate vocal quality that falls somewhere between the plurality of vocal qualities, are generated using only the indicated portion of the plurality of generated sets of synthesized voice information which changes over time) is not disclosed or suggested in any of the documents that are cited in the international search report, including documents 1 to 3, and it would not have been easy for a person skilled in the art to conceive of the configuration in question.